

140A Controller — for PM Motor



Kinetek Controls 140A Controller for permanent magnet motors provides excellent control for motors in traction applications including walk-behind floor scrubbers, mobility carts, wheelchairs, and other equipment requiring similar control processing.

Available for both 24V and 36V DC systems, the fully programmable 140A controller provides variable speed control, regenerative braking, a seven-segment display driver, and two programmable outputs that may be used to drive motor relays, external brakes, solution valves, linear actuators or similar devices. The controller also provides self testing and continuous diagnostics, solid state motor reversing, and is potted for superior water resistance.

The 140A controller uses an extremely dependable, four-FET design that is ideal for applications that do not require the higher expense associated with wound field motor applications. The controller provides seven digital inputs and one potentiometer input for speed control.



Specifications

| 140A Controller | Current Limit | Operating Voltage | Continuous Current Rating | Input | Output |
|---|---------------------|-------------------|---------------------------|--------------------------------|-------------------|
| KCCA0026 | 140A | 24 - 36V DC | 60 - 70A (approx) | 7, digital 1, potentiometer | 2 programmable |
| User Programmable Configuration Options Via KC Host | | | | | |
| Seat Switch Y/N | Start Switch Y/N | Brake Enable Y/N | Accel Y/N | AUX 1 Function Y/N | Min Brake Current |
| Accel Pot SRO | Accel 5k or 10k | Direction SRO | Start Switch SRO | Battery Cable Comp | IR Comp Y/N |
| Battery Volt Level | Tract Accel Fwd | Tract Accel Rev | Tract Decel Ramp | Key Off Ramp | IR Comp Const |
| Tract Top speed Fwd | Tract Top speed Rev | Tract Curr Offset | Chat Timeout Period | 24- 36 Volts | |

Features

- 24 and 36V DC models
- Solid state motor reversing
- Regenerative braking
- Top speed control
- User programmable via KC Host
- Self test and continuous diagnostics
- 2 programmable auxiliary outputs
- Potted for superior water resistance
- Error code history via KC Host

Key Applications

- Electric utility vehicles
- Commercial floorcare machines
- Power sweepers
- Mobility carts
- Wheelchairs
- Recreational vehicle systems

Related Kinetek Products

- DC wound field motors
- Permanent magnet DC motors
- Transaxle drive systems
- High frequency battery chargers
- Hydraulic pump motor systems
- Single wheel drives
- Multi-function display
- Linear actuator

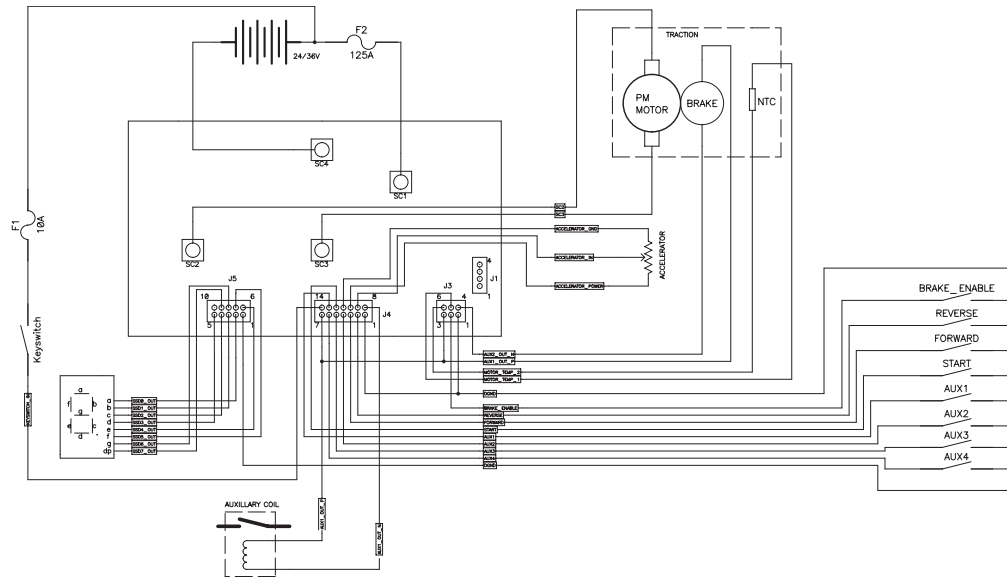


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KINETEK COMMERCIAL FLOOR CARE SOLUTIONS

Diagram



Connector Pin Out

- J1 (Programming)
 - Pin 1: Battery +
 - Pin 2: RXD
 - Pin 3: TXD
 - Pin 4: Ground
- J3 (Input/Output)
 - Pin 1: Ground
 - Pin 2: Brake Enable
 - Pin 3: AUX 1 Out Pos
 - Pin 4: AUX 2 Out Neg
 - Pin 5: Motor Temp 1
 - Pin 6: Motor Temp 2
- J4 (Input/Output)
 - Pin 1: Ground
 - Pin 2: Reverse
 - Pin 3: Forward
 - Pin 4: AUX 2 In
 - Pin 5: AUX 3 In
 - Pin 6: AUX 4 In
 - Pin 7: AUX 1 Out Pos
 - Pin 8: AUX 1 Out Neg
 - Pin 9: Accelerator In
 - Pin 10: Accelerator Power
 - Pin 11: Accelerator Ground
 - Pin 12: Start Switch In
 - Pin 13: AUX 1 In
 - Pin 14: Keyswitch In
- J5 (Display)
 - Pin 1: Ground
 - Pin 2: SSD 0 Out
 - Pin 3: SSD 1 Out
 - Pin 4: SSD 2 Out
 - Pin 5: SSD 3 Out
 - Pin 6: SSD 4 Out
 - Pin 7: SSD 5 Out
 - Pin 8: SSD 6 Out
 - Pin 9: SSD 7 Out
 - Pin 10: N/C



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